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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/975,544	10/11/2001	William Robert Hanson	035451-0146 (3683.Palm)	9410
26371	7590	12/17/2003	EXAMINER	
FOLEY & LARDNER			LEWIS, DAVID LEE	
777 EAST WISCONSIN AVENUE			ART UNIT	
SUITE 3800			PAPER NUMBER	
MILWAUKEE, WI 53202-5308			2673	
DATE MAILED: 12/17/2003				

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/975,544	HANSON ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	David L Lewis	2673	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1) Responsive to communication(s) filed on 30 September 2003.

2a) This action is FINAL.                    2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

4) Claim(s) 1-40 is/are pending in the application.

4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

5) Claim(s) \_\_\_\_\_ is/are allowed.

6) Claim(s) 1-40 is/are rejected.

7) Claim(s) \_\_\_\_\_ is/are objected to.

8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. §§ 119 and 120

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) All b) Some \* c) None of:  
1. Certified copies of the priority documents have been received.  
2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.  
a) The translation of the foreign language provisional application has been received.

14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

#### Attachment(s)

1) <input type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____ .
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ .	6) <input type="checkbox"/> Other: _____ .

## DETAILED ACTION

### ***Claim Rejections - 35 U.S.C. § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

(e) the invention was described in--  
(1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or  
(2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).
2. **Claims 1-9, 12-15, 17-19, 22-31, 34-37, 39 and 40 are rejected under 35 U.S.C. 102(a) as being anticipated by Ogura et al. (6189056 B1).**
3. **As in claim 1, Ogura et al. teaches of a electronic module, figure 1 and 7, comprising; a display housing, figure 7 item (display housing); a display supported by the display housing, figure 7 item (display); an interface housing, figure 3 item 10, figure 7 item (card connector); a processor coupled to the display, figure 2 item 63; a power supply coupled to the processor, figure 2 item 81; an interface configured to be removably coupled to a handheld computer, figure 7 item (card connector), the interface being incorporated into the interface housing, figure 3 item 10, figure 7 item (card connector); and, a memory coupled to the processor, figure 2 item 65, wherein the**

display is smaller than a display for a handheld computer, **column 1 lines 10-33**, wherein the device is for use with a larger notebook type computer which is handheld.

4. **As in claim 19, Ogura et al. teaches of** an accessory module for a portable electronic device , **figure 1 and 7**, comprising: an accessory housing, **figure 1 and 7**; a processor supported by the accessory housing, **figure 2 item 81**; an interface for making electrical connection between the processor and a host device, **figure 1 item 11**; and, an interface housing for supporting the interface, **figure 1 item 11**, wherein, the interface housing is hinged to the accessory housing such that the interface housing can fold behind the accessory housing, **figure 3 item 30**, the interface housing can unfold to extend for insertion into an interface slot in a handheld electronic device, **figures 1-3 item 30**, and the interface can be used to couple to the host device when in the folded position, **figure 1 item 30**, wherein the device can be folded to certain degrees, sufficiently reading on the claims language.
  
5. **As in claim 23, Ogura et al. teaches of** a portable electronic module for coupling to a host handheld device, comprising: a display housing, **figure 1 item 20**, **figure 7 item (display)**; a display coupled to the display housing, **figure 1 item 21**, **figure 7 item (display)**; an interface housing, **figure 1 item 10**; an interface configured to be removably coupled to the host handheld device, the interface being incorporated into the interface housing, **figure 1 item 11**, **figure 7 item (card connector)**; a processor coupled to the interface and the display, figure 2 item 63, a memory coupled to the processor,

**figure 2 item 65, figure 3 item 51C, and a power supply coupled to the processor, figure 2 item 81.**

6. **As in claims 2 and 24, Ogura et al. teaches of,** wherein the memory includes Secure Digital (SD) memory, figure 3 item 51C and 51B, decoder with memory. **As in claim 3 and 25, Ogura et al. teaches of,** wherein the interface is configured to be coupled to a slot in a housing of the handheld computer, figure 3 item 11. **As in claim 4 and 26, Ogura et al. teaches of,** wherein the interface is configured to exchange data with a host device through electrical interconnects, figure 3 item 11. **As in claim 5 and 27, Ogura et al. teaches of,** wherein the interface is configured to exchange data with a host device through an optical data link, figure 2 item 71, inherent to interface application. **As in claim 6 and 28, Ogura et al. teaches of,** wherein the display module is powered by an internal battery, column 13 lines 17-22. **As in claim 7 and 29, Ogura et al. teaches of** wherein the display module is configured to receive power from a host device through the interface, figure 7 item (card connector). **As in claim 8 and 30, Ogura et al. teaches of**, wherein the interface housing is foldably connected to the display housing, figures 1-3 item 30. **As in claim 9 and 31, Ogura et al. teaches of**, wherein the display module is configured to be received by a host device when the interface housing is folded behind the display housing, figure 7. **As in claim 12 and 34, Ogura et al. teaches of**, wherein the display module further comprises a processing circuit selected from the group consisting of: ASIC, microcontroller, microprocessor, column 14 lines 45-55. **As in claim 13 and 35, Ogura et al. teaches of**, further comprising at least one input/output

device, figure 1 item 12. **As in claim 14 and 36, Ogura et al. teaches of**, wherein the at least one input/output device is selected from the group consisting of: touch screens, buttons, dials, switches, and electro-audio transducers, figure 1 items 100. **As in claim 15 and 37, Ogura et al. teaches of**, wherein the display module operates to display information when not coupled to a host device, figure 1 item 21. **As in claim 17 and 39, Ogura et al. teaches of**, further comprising a display controller for controlling the display, column 14 lines 45-55 or figure 1 item 63. **As in claim 18 and 40, Ogura et al. teaches of**, wherein the memory is configured to store and retain data customized to the user, figure 2 item 65 and 66. **As in claim 21, Ogura et al. teaches of**, wherein the hinge includes a plurality of detents, figure 1 item 11. **As in claim 22, Ogura et al. teaches of**, wherein the interface housing is configured to fit a secure digital (SD) slot, figure 3 item 51C and 51B.

7. **Claims 1, 10, 11, 16, 23, 32, 33, and 38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kotchick et al. (2003/0016327) in view of Ogura et al. (6189056 B1).**
  
8. **As in claim 1, Kotchick et al. teaches of** a display module for a handheld computer, **paragraphs 32 and 33**, comprising; a display housing, **figure 8b item 852**; a display supported by the display housing, **figure 8a item 860**; an interface housing, **figure 8a item 810**; a processor coupled to the display, **figure 8b item 852**, a power supply coupled to the processor, **figure 8b item 810**, **paragraph 37**, wherein said power being

supplied by the interface lines is an inherent feature; an interface configured to be removably coupled to the handheld computer, **figure 8a item 810**, the interface being incorporated into the interface housing, **figure 8a item 810, 820**; and, a memory coupled to the processor, **figure 8b 852, paragraph 37, said memory being an inherent display feature**. Wherein figures 8a,b, and c represent one of the devices discussed in paragraph 33, including a fully functional display module, wherein as is well known includes memory buffers and driver circuitry controlled by a processor. **Ogura et al. provides support for the inherent processor, power, and memory features in Kotchick, as are well known in the art, as applied to Claims 1-9, 12-15, 17-19, 23-31, 34-37, 39 and 40 over Ogura et al..**

9. **As in claim 23, Kotchick et al. teaches of a portable electronic module for coupling to a handheld host device, comprising: a display housing, figure 8b item 852; a display coupled to the display housing, figure 8a item 860; an interface housing, figure 8a item 810; an interface configured to be removably coupled to the host handheld device, the interface being incorporated into the interface housing, figure 8a items 810 and 820; a memory coupled to the processor, figure 8b 852, paragraph 37, and a power supply coupled to the processor, figure 8b item 810, paragraph 37, wherein said power being supplied by the interface lines is an inherent feature.** Wherein figures 8a,b, and c represent one of the devices discussed in paragraph 33, including a fully functional display module, wherein as is well known includes memory buffers and driver circuitry. **Ogura et al. provides support for the inherent processor, power, and memory**

**features in Kotchick, as are well known in the art, as applied to Claims 1-9, 12-15, 17-19, 23-31, 34-37, 39 and 40 over Ogura et al..**

10. **As in claim 10, 16, 32, and 38, Kotchick et al. teaches of**, wherein the host device is selected from the group consisting of: mobile telephone, game, toy, e-book, electronic projection device, camera, key fob or pendant, MP3 player, control for home, control for vehicle, remote control for entertainment system, digital sports assistant, pedometer, information technology equipment, and watch, figures 4a,b,c,d, column paragraph 33. **As in claim 11 and 33, Ogura et al. teaches of**, wherein the host device is a wearable device, figure 4d, paragraph 33.

*Response to Arguments*

11. Applicant's arguments filed 9/30/2003 have been fully considered but they are not persuasive. The Applicant has amended the claims to include features that are either taught by or inherent to both Ogura and Kotchick. Said handheld feature is taught by Ogura given said notebook computer is capable of being operated while handheld. Further the display on the module of figure 1, 6, and 7 of Ogura, is smaller than the display of known notebook computers. Ogura teaches what is explicitly lacking in Kotchick but inherently implied by the structure of Kotchick, wherein a power source, memory, and processor are all known display features required for the device of

Kotchick, coupled to the respective parts to function properly. The rejection of claim 19 over Kotchick is withdrawn given the amendment claims language.

***Conclusion***

12. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a). A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.
  
13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **David L. Lewis** whose telephone number is (703) 306-3026. The examiner can normally be reached on MT and THF from 8 to 5. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala, can be reached on (703) 305-4938. Any inquiry of a general nature or relating

Art Unit: 2673

to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-3900.

**Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks

Washington, D.C. 20231

**or faxed to:**

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.



BIPIN SHALWALA  
SUPPLYING PATENT EXAMINER  
TECHNOLOGY CENTER 2600